United States Coast Guard



Name of Vessel				
Official Number		Class		
Date Completed		Location	on	
Vessel Built in Comp	liance with S	OLAS:	60 74	74/78 N/A
Route				
Oceans	Limited Coas	stwise	Lakes	/ Bays / Sounds
Coastwise	Great Lakes		Rivers	
Inspection Type				
Inspection for Certific	cation (COI)		Reins	pection
Inspectors				
1		3		
2		4		

Deficiency	MSIS Code	Req't. Issued / Date Completed
	_	

Deficiencies identified should be listed with MSIS codes. At completion of inspection/examination, any outstanding deficiencies shall be entered in MIDR or PSDR as appropriate. All deficiencies found (outstanding and completed) shall be entered in the Deficiency Summary. Worklist items, which serve only as memory joggers to complete inspection/examination (e.g., test emergency fire pump), should not be coded as deficiencies.

MSIS Codes for Deficiencies:

BS	Ballast	DC	Dry Cargo	IC	I/C Engine
ВІ	Bilge	ES	Electrical	LS	Lifesaving
ВА	Boiler, Aux.	FF	Firefighting	MI	Miscellaneous
вм	Boiler, Main	FL	Fuel	NS	Navigation
cs	Cargo	GS	General Safety	PP	Propulsion
DM	Deck Machinery	НА	Habitation	SS	Steering
DL	Doc., Lics., Pmts.	HU	Hull		

Use of Tankship Inspection Book:

This inspection book is intended to be used as a job aid by Coast Guard marine inspectors during inspections of U.S. flagged tankships. The lists contained within this book are not intended to limit the inspection. Each marine inspector should determine the depth of inspection necessary. A checked box should be a running record of what has been inspected. It does not imply that the entire system has been inspected or that all or any items are in full compliance. This job aid does not constitute part of the official inspection record.

This document does not establish or change Federal laws or regulations. References given are only general guides. Refer to IMO publications, CFR's, NVIC's or any locally produced cite guides for specific regulatory references. Not all items in this book are applicable to all vessels.

NOTE: Guidance on how to conduct inspections of U.S. flagged tankships can be found in the Marine Safety Manual (MSM) Volume II, Chapter B1: Inspection of Vessels for Certification. All MSM cites listed in this book refer to MSM Volume II unless otherwise indicated.

Guide to Examinations:

O Vessels carrying dangerous cargoes in bulk

Pre-inspection Items:

- Review MSIS records.
 - MIPIP
 - MICOI
- Obtain copies of forms to be issued.

Post-inspection Items:

- Issue letters/certificates to vessel.
- Complete MSIS entries.
 - MIAR
 - MSDS
 - MIDR
 - VFLD
 - VFID
- Initiate Report of Violation (ROV) if necessary.

Recommended US Vessel Deficiency Procedures:

Step	Action						
1	Identify deficiency.						
2	Inform vessel representative.						
3	Record on the Deficiency Summary Worksheet (next page).						
4	If deficiency is corrected prior to end of inspection, go to Ste	p 7.					
5	If deficiency is unable to be corrected prior to end of inspection, issue CG-835 in accordance with table below.						
	IF deficiency: THEN issue CG-835:						
	Does NOT immediately impact crew/passenger safety, hull seaworthiness, or the environment, e.g., • Missing placards • Non-metallic expansion joints more than 10 years in service That provides a specific time for correcting deficiency, e.g., • "X" number of days • At next drydock						
	Allows vessel operations to be MODIFIED to meet less stringent requirements, e.g., • Expired international certificates • Automation defect That restricts operation of vessel to meet current vessel conditions, e.g., • Reduced route • Increased crew						
	DOES immediately impact crew/passenger safety, hull seaworthiness, or the environment, and cannot be modified to meet less stringent requirements, e.g., • Missing or defective firefighting equipment • Structural defect or damage						
6	Enter CG-835 data in MIDR.						
7	Enter deficiency data in MSDS.						
8	Initiate Report of Violation (ROV) if necessary.						

Section 1: Administrative Items

IMO Applicability Dates:

Reference	Date
SOLAS 1960	26 MAY 65
SOLAS 1974	25 MAY 80
1978 Protocol to SOLAS 1974	01 MAY 81
1981 Amendments (II-1 & II-2)	01 SEP 84
1983 Amendments (III) Various additional amendments to SOLAS	01 JUL 86
various additional amendments to SOLAS	
MARPOL 73/78 Annex I	02 OCT 83
MARPOL 73/78 Annex II	06 APR 87
MARPOL 73/78 Annex III	01 JUL 92
MARPOL 73/78 Annex V	31 DEC 88
IBC Code	After 01 JUL 86
BCH Code	Prior to 01 JUL 86
IGC Code	After 01 JUL 86
IGC Code (for existing vessels)	Prior to 01 JUL 86
COLREGS 1972	15 JUL 77
Various additional amendments to COLREGS	
Load Line 1966	21 JUL 68
STCW 1978	28 APR 84
1991 Amendments	01 DEC 92
1994 Amendments	01 JAN 96 01 FEB 97
1995 Amendments	OIFEB 97

Cargoes Requiring a Response Plan:

Type of Cargo		Name of Cargo	
Asphalt Solution	Blending stocks	Roofers stock	 Straight run residue
Animal Oils	TallowLardStearic acid	Olive acidSperm oil	Fish oilFish liver
Distillates	Flashed feed stocks	Straight run	
Easenal Oils	Pinene	• Turpentine	• Dipentine
Edible Oils	CornCoconut	SoybeanOlive	Cotton seed
Gasolines	AutomotiveAviationCasinghead	PolymerStraight runGas, oil cracked	AkylatesReformates
Naptha	AromaticCracking fractionHeavy	ParaffinicPetroleumSolvent	Stoddard solventVarnish makers
Oils	 Clarified oil Crude oil Fuel oils [# 1 (Kerosene), # 2, # 2D, # 4, # 5, # 6] Residual fuel oil Transformer oil Lube oil and blending stock 	 Aromatic oil (excluding vegetable oil) Mineral oil Motor oil Penetrating oil Spindle oil Turbine oil Octene 	 Olefin Animal Range Residual Resin Road White (mineral)

Vessel Information:

Classification Society			
ISM Issuer: Same as above?			
Yes No If not the sa Recognized Org	•		
NOTE: The period of validity for ISM doc. If they do NOT, ISM documents should b			to the following list.
□ 5 years = Full term (SMS and DO	C) 🗆	12 months = In	nterim (DOC)
□ 6 months = Interim (SMC)		5 months = Sh	ort term (SMC)
Gross Tons			No Change (VFMD)
Net Tons			No Change (VFMD)
Built Date (use delivery date)			No Change (VFCD)
Overall Length (in feet)			No Change (VFMD)
Does vessel meet double-hull red	quireme	nts?	
Yes No If not, vessel m			s by (date) pendix G.
Last Three Cargoes			
1			
2.			
3.			
Is pumproom gas-free?	Yes	No	N/A
Vessel Description:			

Crude Carrier	Combination
Product Carrier	Oil / Bulk / Ore
Chemical Carrier	Other

Stern

- Double hull / bottom / sides
- Chemical tank type: I II III Ballast tanks (SBT/CBT)
- Deckhouse location Tank arrangement
- External / internal framing

Layout of pumps – type

Name of Certificate	Issuing Agency	ID#	Port Issued	Issue Date	Exp. Date	Endors. Date
International Load Line (ILL)						
No Change						
International Oil Pollution Prevention w/Form B (IOPP)						
No Change						
Certificate of Fitness (COF)	USCG					
No Change	3333					
International Tonnage (ITC)						
No Change						
Safety Management (SMC)						
No Change						
Document of Compliance (DOC)						
No Change						

Section 5: Drills

☐ Fire Drill:		
Initial notifications	Familiarity with duties	Space isolation
General alarms / signals	Familiarity with equipment	Smoke control
Crew response	Fire pumps started	Communications w/ bridge
Properly dressed / equipped	Two jets of water	
Language understood by crew	Fire doors and dampers	
(SOLAS 74/78 III/18.3; MSM Vol	I. II/D5.C.7.i; NVIC 6-91)	
Location:		Time on Scene:
Notes:		

Logs and Manuals:

	<u>o ana manaalor</u>	
	Lifesaving equipment maintenance record	46 CFR 199.190(e)
	 Periodic checks as required Visual inspection of survival craft / rescue boat and launching appliances Operation of lifeboat / rescue boat engines Lifesaving appliances, including lifeboat equipment examined 	SOLAS 74/78 III/19
	Emergency training and drills	SOLAS 74/78 III/18
	 Onboard training in use of lifesaving equipment (all crew members) SOLAS training manual Logbook records 	40.050.400.400
	Fire and lifeboat drillsGeneral alarm tested	46 CFR 199.180 SOLAS 74/78 III/18.5 SOLAS 74/78 III/25
	Pre-arrival tests conducted Casualties (navigation equipment and steering gear failures reported) Steering gear drills Emergency steering drills	SOLAS 74/78 V/19 STCW 95 I/14 33 CFR 164.25 33 CFR 164.53 46 CFR 35.07
	Information available to master (as required)	46 CFR 42.15-1
	Loading manualTrim and stability book	46 CFR 31.10-32 46 CFR 45.105(a)
	Cargo and ballast system instruction manual	33 CFR 157.23 46 CFR 153.806
<u>Poll</u>	ution Prevention Records:	
	 Oil record book Each operation signed by person-in-charge Each complete page signed by master Book maintained for 3 years 	MARPOL Ax. I/20 33 CFR 151.25
	Shipboard oil pollution emergency plan Approved by Coast Guard / class society Contact numbers correct Immediate Actions List	MARPOL Ax. I/26.1 33 CFR 151.26
Notes		

Section 3: Inspection Items for All Vessels Pumprooms: Navigation Equipment: Ventilation WARNING: Pumproom must be adequately ventilated prior to personnel entry. Navigation publications (as applicable) 46 CFR 35.20-1 33 CFR 164.33 Forced exhaust 46 CFR 153.310 Current and corrected charts SOLAS 74/78 V/20 Termination of external openings 46 CFR 153.312 U.S. Coast Pilot Intake below and above floor plates **Great Lakes Pilot** Operable from outside pumproom Sailing directions Adequate volume Coast Guard Light List Material condition of ducting Notice to mariners Tide tables Tidal current tables Pressure gauges outside pumproom and operable 46 CFR 153.333 International Rules of the Road Type of drive Inland Rules of the Road Material condition Operationally test radar(s) and ARPA 46 CFR 32.15-30 Shaft seals (where motor rooms are installed) 33 CFR 164.35 2 required if over 10,000 GT 33 CFR 164.37 Leakage Operate independently 33 CFR 164.38 Vapor-tight SOLAS 74/78 V/12 ARPA acquires targets Adequate supply of oil (where required) Compasses 46 CFR 32.15-35 General 33 CFR 164.35 Illuminated gyrocompass with repeater at stand SOLAS 74/78 V/12 Hoisting arrangement 46 CFR 153.332 Illuminated magnetic compass Bilge pumping system 46 CFR 153.334 Current deviation table Operational Remote controls Test electronic depth sounding device and 46 CFR 32.15-10 High-level alarm recorder 33 CFR 164.35 SOLAS 74/78 V/12 Accurate readout **Electrical Systems:** Test all transducers NOTE: Requirements for inspecting the following electrical items are detailed in Continuous recorder (chart) Subchapter J as per 46 CFR 153.466. Speed and distance indicator 33 CFR 164.40 Explosion-proof lighting fixtures 46 CFR 111.105 SOLAS 74/78 V/12 Tight globe Propulsion shaft tachometer SOLAS 74/78 V/12 Heavy construction Explosion-proof seals around cables Notes:

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Quick-closing Valves: NOTE: Requirements for quick-closing valves are detailed in 4	6 CED 153 284		Maneuvering facts sheet with warning statements	33 CFR 164.35		
O Operation Tested from at least 2 remote locations Closure time < 30 seconds All valves fully closed	0 OFN 105.204.		 EPIRB (406 MHz) Float-free arrangement Battery date current Hydrostatic release 	SOLAS 74/78 IV/7.1.6 46 CFR 199.510 NVIC 2-93		
 Pumps automatically shut off Capable of local manual operation Reasonably short time 	 Pumps automatically shut off Capable of local manual operation 		GMDSS lifeboat radios (VHF) • 3 if over 500 GT • Operable condition	SOLAS 74/78 III/6.2 NVIC 9-93		
 Under emergency conditions Fusible elements Located at tank domes and loading manifold No paint on face of plug 			 9 GHz radar transponder (SART) Vessels > 300 GT and < 500 require 1 Vessels > 500 GT require 2 Stowed so to be rapidly placed in survival craft, or stowed in survival craft 	SOLAS 74/78 III/6.2 NVIC 9-93		
Venting:			NAVTEX	SOLAS 74/78 IV/7.1.4		
O Type of vent system		General Health and Safety:				
Open, gooseneck P/V High velocity	46 CFR 153.355 46 CFR 153.353		Hospital and first aid equipment	46 CFR 32.40-35		
O Vent piping No stop valves allowed Bypass capability	46 CFR 153.361		Operating room explosion-proof Emergency lighting	46 CFR 111.105-37 46 CFR 112.43 46 CFR 35.10-15 SOLAS 74/78 II-2/43.		
 Material condition Segregation Independent Common Portable Agreement with plans Suitable connections for flushing and draining Coated or lined same as tank Prohibited materials 	46 CFR 153.362 46 CFR 153.236		Crew accommodations Size Lighting and wiring Heating Ventilation Sanitation Screens Insulation	46 CFR 32.40 46 CFR 31.10-45		
Notes:		Notes	Fire retardant			

0	Crew respiratory / eye protection	46 CFR 153.527	Pilot ladder and hoists in good condition 46 CFR 32.90-1 SOLAS 74/78 V/17
Car	EEBD > 15-minute duration go Operations:		IlluminationSpreaders
0	Warning signs and signals		☐ Intrinsically safe portable radios 46 CFR 35.30-30
	 Red signal visible, light / flag Warning signs at gangway "Warning" "Dangerous Cargo" "No Smoking" "No Open Lights" 	46 CFR 153.953 46 CFR 153.955	Safe access to tanker bows (vessels built prior to 1 JUL 98 not required to comply until 1 JUL 2001) Structural Integrity:
0	Portable cargo hose Marked or stenciled Date Tested	46 CFR 153.940	Hull structure (list inaccessible compartments or areas) Decks Shell Hull structure (list inaccessible 46 CFR 31.10-15 ICLL 66 Reg. 1
	 Test pressure MAWP Service temperature – Maximum 		 Bulkheads Tank tops Strength members Approved plans on board 46 CFR 31.10-22
0	 Minimum Test pressure Cargo discharge methods Pumproom Deepwell pump Submerged pump Gas pressurization Liquid displacement 	46 CFR 153.964 46 CFR 153.966	Hull openings and closures Side ports Air ports and dead covers Refuse chutes Cargo tank hatches Butterworth plates Closing devices, gaskets Light / water test 46 CFR 42.13-20 46 CFR 42.15 MSM Ch. B1.E.5 ICLL 66 Regs. 12 - 23 NVIC 5-82 NVIC 10-82, Change 1
<u>Car</u>	Trunks:Trunks and hatches, ullage openingsConditionGaskets	46 CFR 153.256	Deck openings and closures Closing devices Gaskets Light / water test MSM Ch. B1.E.5 ICLL 66 Regs. 12 - 20
	 Closure Butterworth openings Closed Fitted with flame screens 		Guards, ladders, rails, and gangways (including accommodation ladders or pilot ladders) 46 CFR 32.02-10 46 CFR 32.02-15 ICLL 66 Reg. 25
Votes			Notes:

0	 MARPOL Annex I survey Discharge of cargo residue Approved monitoring and control system MARPOL Annex II survey Discharge of cargo residue Approved monitoring and control system 	33 CFR 151.09 33 CFR 151.30	Draft marks Legible Properly sized Properly spaced Load line marks Conform to certificate Legible	46 CFR 32.05-1 46 CFR 31.25-1 46 CFR 42.07-5 46 CFR 42.13-20
NOTE	ine Sanitation Devices: Guidance for inspecting marine sanitation devices is defer C2.K. Marine sanitation device Type I Type II Type III Certified for inspected vessels Capacity satisfactory Installation Operation Ventilation Wiring and piping Maintenance Placard posted Safety Accessibility to parts requiring routine servicing Manufacturer's instructions available	33 CFR 159.55 MSM Ch. B6.F. MSM Ch. B6.F.4 MSM Ch. C2.K.7.d 33 CFR 159.57 MSM Vol. IV Ch. 3.K.1	Anchors Tested Windlass Capstans Automatic tensioning device Mooring, standing and running gear (other than gear covered by Cargo Gear Certificate) Emergency towing arrangements (vessels ≥ 20,000 DWT only) Approved by Administration TGO Operations: Warning notices and signals posted Pumprooms / pumps Pumps and controls Relief valves Cofferdams Ventilation Bulkhead penetrations Bilges clean Free of excessive vapors Closures Remote shutdown Electrical controls outside compartment	46 CFR 32.15-15 ABS Rules 46 CFR 32.15-15 ABS Rules SOLAS 74/78 II-2/3-4 46 CFR 32.60-20 46 CFR 32.50-1 46 CFR 32.55-1 46 CFR 32.55-1 46 CFR 32.55-1 46 CFR 32.55-1 46 CFR 32.50-1 46 CFR 32.50-1 46 CFR 32.50-1 46 CFR 32.50-35 46 CFR 32.50-35 46 CFR 111.105

	Firemen's outfits Two lockers Four outfits	46 CFR 35.30-20 SOLAS 74/78 II-2/17.3 NVIC 2-63		Cargo tank venting Common header system	46 CFR 32.55-20
	 Protective clothing Helmet, boots, and gloves Lamp Axe Self-contained breathing apparatus and lifeline Spare charges 	NVIC 4-68		 P/V valves Flame arrestors Flush and drain connections Inert gas controls Piping Independent PV valves Flame screen 	46 CFR 32.20-5 46 CFR 32.20-10 46 CFR 151.15-5 46 CFR 32.55-20 46 CFR 32.20-10
0	 Water spray system Coverage (all tank domes, cargo manifolds, deck tanks) 	46 CFR 34.25		Independent goosenecks Flame screen Closure device	46 CFR 32.55-25 46 CFR 32.20-10
	OperationLocal / remote control			Explosion-proof fixtures	46 CFR 111.105
	 Manual or automatic Tested Can operate simultaneously with fire main systems Controls marked Material condition ution Prevention: Guidance for inspecting pollution prevention items is det 	ailed in MSM Volume II, 33 CFR 155.450		Independent tanks External examination Date of internal examination Date of hydrostatic test Saddles; foundation and stowage Piping and valves Relief valves Securing devices Cargo hose Electrical grounding Authorized cargo	46 CFR 32.60-30 46 CFR 153.251
	MARPOL V placard posted	33 CFR 151.59		Weather decks	46 CFR 111.105
	Person-in-charge designation Fuel oil containment Portable Fixed	33 CFR 155.700 33 CFR 155.820 33 CFR 155.320		 Sources of vapor ignition Doors, ports, scuttles,, gaskets, and closures satisfactory Portable window air conditioners and fans Ventilation systems 	46 CFR 32.56-21
	Fuel tank vents Flame screens Closures	46 CFR 56.50-85		Air compressor intakes • Prohibited locations	46 CFR 32.35-15
Notes			Notes	S:	

	Fixed fire extinguishing systems Controls, instructions, marking Alarms tested Piping Heads, distribution Bottles weighed annually Bottles hydrostatically tested (every 12 years) Flexible loops tested or replaced (10% per year) Deck foam system Sea suction, strainers Fixed system tested Storage space / door	46 CFR 34.05-5 46 CFR 34.15 46 CFR 34.17 SOLAS 74/78 II-2/21 MSM Ch. C2.I NVIC 6-70 NVIC 6-72, Change 1 NVIC 8-73 46 CFR 31.10-18(a) 46 CFR 34.20 SOLAS 74/78 II-2/61	☐ Closed gauging arrangement ☐ Liquid overfill protection High-level and tank overfill alarms Alarm with automatic shutdown system Spill valve Rupture disk Intrinsically safe Audible and visual alarms Operational test	46 CFR 39.20-9	
	Type of system: (circle appropriate type)		Lifesaving Equipment:		
	Low Pressure CO ₂ High Pressure Halon	Foam	NOTE: Exemptions and alternatives for vessels not subject to 46 CFR 199.600.	SOLAS can be found in	
	Foam tanks Markings Test Analysis Refilled Polar / non-polar foam Cargo compatible	46 CFR 34.17 46 CFR 35.40-10 SOLAS 74/78 II-2/61 NVIC 6-72 NVIC 11-82	 □ General alarms • Controls • Batteries and fuses • Tested • Markings • Bell locations audible □ Type of lifeboat 	46 CFR 32.25 46 CFR 113.25 SOLAS 74/78 III/6.4 46 CFR 35.40	
	Fire main system Pumps Piping Cut-off valves Drains	46 CFR 34.05 46 CFR 31.10-18(g) 46 CFR 34.10-5 46 CFR 31.10-18(f) 46 CFR 34.10-15(c) NVIC 6-72, Change 1 SOLAS 74/78 II-2/4 SOLAS 74/78 II-2/21 MSM Ch. C2.I.9 MSM Ch. C2.I.8	Davit launched Free fall Lifeboats stripped, cleaned and inspected Date of annual servicing Lifeboats and work boats Hull and fittings Tanks and fittings Cradles Gripes Compressed air cylinders Markings	46 CFR 199.190(f) 46 CFR 199.201 46 CFR 199.202 46 CFR 199.261 46 CFR 199.262 SOLAS 74/78 III/19.2 SOLAS 74/78 III/26 MSM Ch. C2.H.2 46 CFR 199.176	
Notes	:		Notes:	40 CFR 199.170	

	Lifefloats and buoyant apparatus • Equipment	46 CFR 199.640
	Stowage	
	Markings	
	Line-throwing apparatus	46 CFR 199.170
	• Equipment	SOLAS 74/78 III/17
	Required drills held	NVIC 8-69
	Magazine	11110 0 00
	• Type	
	Lifebuoys	46 CFR 199.70(a)
	 Lights 	SOLAS 74/78 III/7 SOLAS 74/78 III/27
	• Lines	SULAS 14/18 III/21
	 Smoke signals 	
	• Stowage	
	 Markings 	
	Lifejackets	46 CFR 199.70(b)
	Adult Children	SOLAS 74/78 III/7.2.2 MSM Ch. C2.H.4
	Retro-reflective tape	NVIC 2-63
	• Lights	
	 Whistles 	
	 Work vests 	
	Stamped passed	
	 Number of lifejackets rejected by inspector 	
	Lifejacket stowage	46 CFR 199.70(b)
	Required notices and markings	SOLAS 74/78 III/7.2
	Stowage lockers	46 CFR 199.80(c)
	Wearing instructions	46 CFR 199.70(b)(2) 46 CFR 199.80(c)
	 Location instructions (passenger vessels) 	46 CFR 199.80(c)
	Moderne	
ш	Work vests	46 CFR 35.03
	 Approved type 	46 CFR 35.03-5
	 Stowage 	46 CFR 35.03-15
	Stateroom notices posted	46 CFR 199.80(c)
Votes	S:	

Item Number	ltem	Interna Voy	ational age	Short International Voyage	
		Lifeboat	Rescue Boat	Lifeboat	Rescue Boat
29	Signal, smoke	2		2	
30	Signal, hand flare	6		6	
31	Signal, parachute flare	4		4	
32	Skates and fenders ⁸	1	1	1	1
33	Sponge ⁷		2		2
34	Survival instructions	1		1	
35	Table of lifesaving signals	1		1	
36	Thermal protective aids ⁹	10%	10%	10%	10%
37	Tool kit	1		1	
38	Tow line ¹⁰	1	1	1	1
39	Water (liters/person)	3		3	
40	Whistle	1	1	1	1

Footnotes:

- 1 Each rigid liferaft equipped for 13 persons or more must carry two of these items.
- 2 Not required for boats of self-bailing design.
- 3 Not required for inflated or rigid-inflated rescue boats.
- 4 A hatchet counts towards this requirement in rigid rescue boats.
- 5 Oars are not required on a free-fall lifeboat; a unit of oars means the number of oars specified by the boat manufacturer.
- 6 Rescue boats may substitute buoyant paddles for oars, as specified by the manufacturer.
- 7 Not required for a rigid rescue boat.
- 8 Required if specified by the boat manufacturer.
- 9 Sufficient thermal protective aids are required for at least 10% of the persons the survival craft is equipped to carry, but not less than two.
- 10 Required only if the lifeboat is also the rescue boat.

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